SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Mark Clard;	Examiner#: 69462 Date: 6/6/2003
Art Unit: /6/6 Phone Number 30 8-45	50 Senal Number: 09/937 762
Mail Box and Bldg/Room Location: CM1 - 2011	Results Format Proferred (circle): PAPER DISK E-MAIL
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Please provide a detailed statement of the search topic, and desc	ribe as specifically as possible the subject matter to be searched.
Include the elected species or structures, keywords, synonyms, a	cronyms, and registry numbers, and combine with the concept or al meaning. Give examples of relevant citations, authors, etc. if
known. Please attach a copy of the cover sheet, pertinent claims	and abstract. See the second s
Title of Invention:	<u> </u>
Inventors (please provide full names):	
Earliest Priority Filing Date:	NE 2
For Sequence Searches Only Please include all pertinent informat appropriate serial number.	ion (parent, child, divisional, or issued patent numbers) along with the
- As cultival compositions conve	rising adjuvants of the formula:
	A = -C - (0-A/4) -
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Searcher Prep & Review Time: Fulltext Clerical Prep Time: Patent Family	Sequence Systems
Online Time: 56 Other	Other (specify)
PTO 1590 (8-01)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 96022

TO: Mark Clardy

Location: CM1/2D11/2D19

Art Unit: 1616

Tuesday, June 17, 2003

Case Serial Number: 937762

From: Paul Schulwitz

Location: Biotech-Chem Library

CM1-6B06

Phone: 305-1954

paul.schulwitz@uspto.gov

Search Notes

Examiner Clardy,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz Technical Information Specialist STIC Biotech/Chem Library (703)305-1954





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Mary Hale, Information Branch Supervisor 308-4258, CM1-1E01

Offinally Results recoback form
> I am an examiner in Workgroup: Example: 1610
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 Cited as being of interest. Helped examiner better understand the invention. Helped examiner better understand the state of the art in their technology.
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Bib Data Sheet

CONFIRMATION NO. 5699

SERIAL NUMB 09/937,762		FILING DATE 01/29/2002 RULE	CLASS G		GRO	GROUP ART UNIT 1616			ATTORNEY DOCKET NO. 109846.998	
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Appendix 1 - Clean Version of all Pending Claims

1. (Amended) An agrochemical composition comprising an agrochemical active ingredient and an adjuvant of formula (I) or salts thereof

$$X-(R^3O)_a - R^4-N R^2R^1$$
 (I)

wherein R^1 and R^2 are independently hydrogen or a lower alkyl group or a group X'- $(R^3O)_a$ - R^4 — wherein R^3 and R^4 respectively may take any of the values of R^3 and R^4 as hereinafter defined and wherein X' is –OH or a lower alkoxy group containing from 1 to 6 carbon atoms and a' is from 0 to 400

 R^3O is an ethoxy, propoxy or butoxy group or a random or block mixture thereof, R^4 is a linear or branched chain alkylene bridging group containing from 1 to 4 carbon atoms, X is

(IA) -OH or a lower alkoxy group containing from 1 to 6 carbon atoms or X is

(IB) a group R^5R^6N - or R^5R^6N - R^7 -

wherein R^5 or R^6 are independently hydrogen or a lower alkyl group or a group X'- $(R^3O)_a$ - R^4 – as hereinbefore defined wherein X' is –OH or a lower alkoxy group containing from 1 to 6 carbon atoms,

and R⁷ is a linear or branched chain alkylene bridging group containing from 1 to 4 carbon atoms

or X is

(IC) a group

$$CR^{16}R^{17} - O$$

$$CR^{18} - (R^{21})_d - O - (R^8O)_b - R^9 - NR^{10}R^{11}$$

$$| CR^{19}R^{20} - O - (R^{12}O)_c - R^{13} - NR^{14}R^{15}$$



wherein R^{10} , R^{11} , R^{14} and R^{15} are independently hydrogen or a lower alkyl group or a group X' - $(R^3O)_a$ - R^4 – as hereinbefore defined wherein X' is –OH or a lower alkoxy group containing from 1 to 6 carbon atoms,

M

and R⁸ and R¹² are independently alkyl groups containing from 1 to 4 carbon atoms and R⁹, R¹³ and R²¹ are independently a linear or branched chain alkylene bridging group containing from 1 to 6 carbon atoms, R¹⁶, R¹⁷, R¹⁸, R¹⁹ and R²⁰ are independently hydrogen or a lower alkyl group and d is 0 or 1

and wherein a, is from 1 to 400 or if X is of formula IC, the sum of a, b and c is from 3 to 400.

2. A composition according to claim 1 wherein

X is -OH or a lower alkoxy group containing from 1 to 4 carbon atoms or

X is R⁵R⁶N- wherein R5 and R6 are hydrogen or a lower alkyl group containing from 1 to 4

X is a group of formula IC'

CH2 - O-

carbon atoms or

$$CR^{18} - (R^{21})_d - O - (R^8O)_b - R^9 - NH_2$$

$$C H_2 - O - (R^{12}O)_c - R^{13} - NH_2$$

wherein R⁸O and R¹²O are independently ethoxy, or propoxy or a random or block mixture thereof, R⁹ and R¹³ are independently a linear or branched chain alkylene bridging group containing 2 or 3 carbon atoms, R²¹ is a linear or branched chain alkylene bridging group containing from 1 to 3 carbon atoms, R¹⁸ is hydrogen or lower alkyl containing from 1 to 4 carbon atoms, d is 0 or 1,

R¹ and R² are independently hydrogen or a lower alkyl group containing from 1 to 4 carbon atoms, R³O is ethoxy, or propoxy or a random or block mixture thereof, R⁴ is a linear or branched chain alkylene bridging group containing 2 or 3 carbon atoms and a is from 1 to 400 or if X is of formula IC', the sum of a, b and c is from 3 to 400.

- 3. (Amended) A composition according to claim 1 wherein a is from 1 to 50 or if X is of formula IC or IC' respectively, the sum of a, b and c is from 3 to 90 and wherein in the group X'- $(R^3O)_a R^4$ if present, a' is from 0 to 50.
- 4. (Amended) A composition according to claim 1 wherein the adjuvant of formula (I) is an alkoxylated monoamine, having the formula II

$$CH_3 - O-(-CH_2CH_2O-)_x - (-CH_2-CH(CH_3)-O-)_y-CH_2-CH(CH_3)-NH_2$$
 (II)

wherein the average degree of ethoxylation (x) is from 0 to about 45 and the average degree of propoxylation (y) is from 0 to about 90 provided that x and y are not both 0 at the same time.

- 5. A composition according to claim 4 wherein the value of x is from 0 to about 20 and of y is from about 2 to about 30.
- 6. (Amended) A composition according to claim 1 wherein the compound of formula (I) is a diamine having a formula (III)

$$H_2N-(CH(CH_3)-CH_2-O)_w-CH_2-CH(CH_3)-NH_2$$
 (III)

wherein w is an average of from about 1 to about 80.

- 7. A composition according to claim 6 wherein w is an average of from about 2 to about 35.
- 8. A composition according to claim 1 wherein the compound of formula (I) is a diamine having a formula (IV)

$$H_2N-(CH(CH_3)-CH_2-O)_r-(CH_2CH_2-O)_s-(CH_2-CH(CH_3)-O-)_t-CH_2-CH(CH_3)NH_2 \ (IV)_{t-1}-(CH_2CH_2-O)_{$$

wherein the sum of r + t is an average of from 1 to 20 propoxy groups and s is an average of from 2 to 50 ethoxy units.

- 9. A composition according to claim 8 wherein the sum of r + t is from about 2 to about 15 and s is from about 3 to about 20.
- 10. A composition according to claim 1 wherein the compound of formula (I) is a propoxylated triamine having the formula (V)

$$CR^{22} - (R^{21})_d - O-(CH_2-CH(CH_3) - O)_e - CH_2CH(CH_3)-NH_2$$
 (V)

$$CH_2 - O - (CH_2 - CH(CH_3) - O)_f - CH_2CH(CH_3) - NH_2$$

wherein the sum of d + e + f is an average of from about 5 to 90, R^{22} is hydrogen or lower alkyl containing 1 to 4 carbon atoms, R^{21} is a linear or branched chain alkylene bridging group containing 1 to 3 carbon atoms and d is 0 or 1.

- 11. (Amended) A composition according to claim 1 wherein the proportion of adjuvant of formula (I) or salt thereof to the agrochemical active ingredient is from 1:20 to 3:1 by weight.
- 12. (Amended) A composition according to claim 1 wherein the adjuvant of formula (I) or salt thereof is used in combination with an alkylpolyglycoside surfactant.
- 13. A composition according to claim 12 wherein the ratio of the adjuvant of formula (I) to the alkylpolyglycoside surfactant is from 1:40 to 4:1.
- 14. (Amended) A composition according to claim 1 wherein the agrochemical active ingredient is a salt of glyphosate, a salt of fomesafen or a parquat salt.